

Figure 1. Experimental and analytical setup

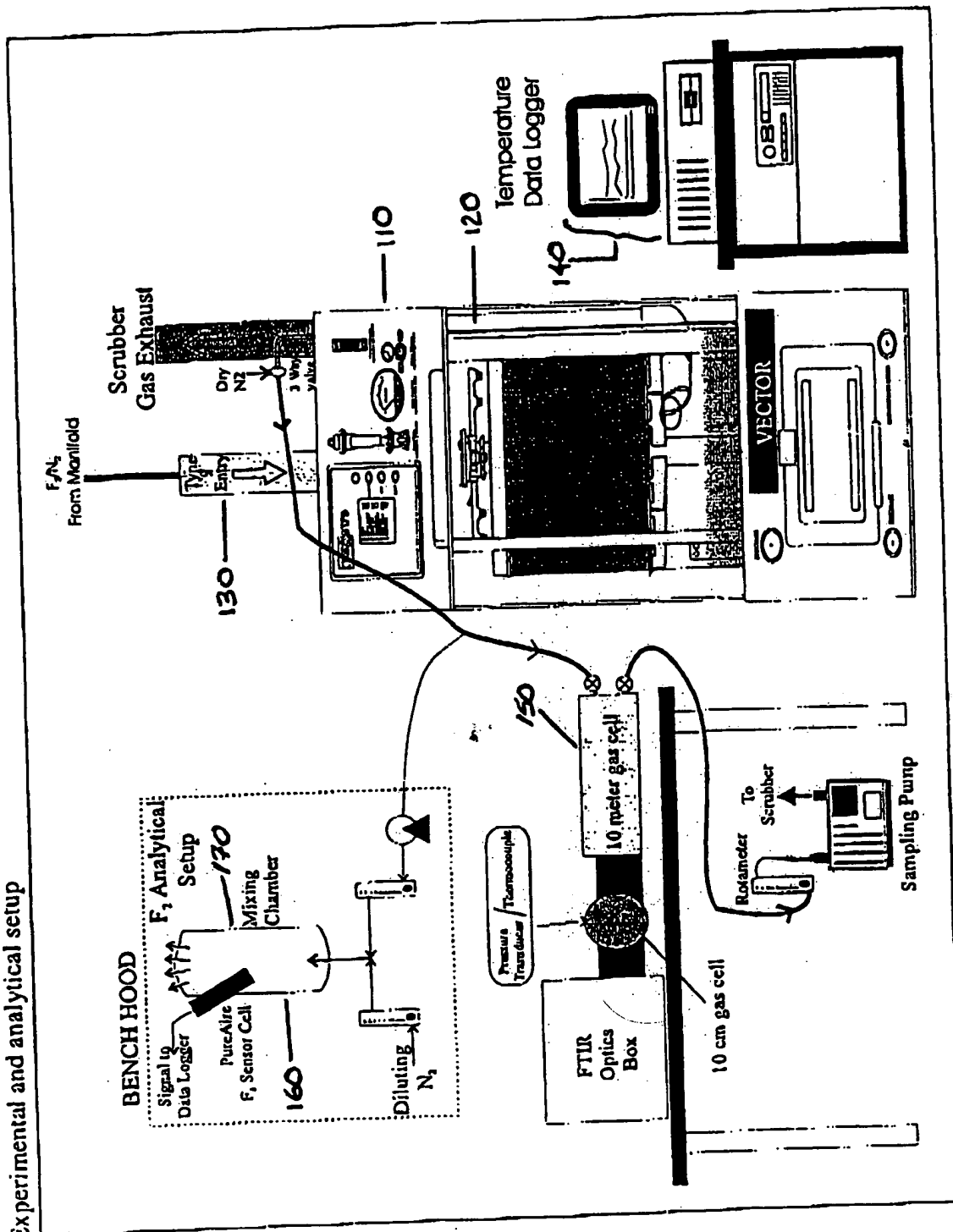


FIGURE 1

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FIGURE 2-

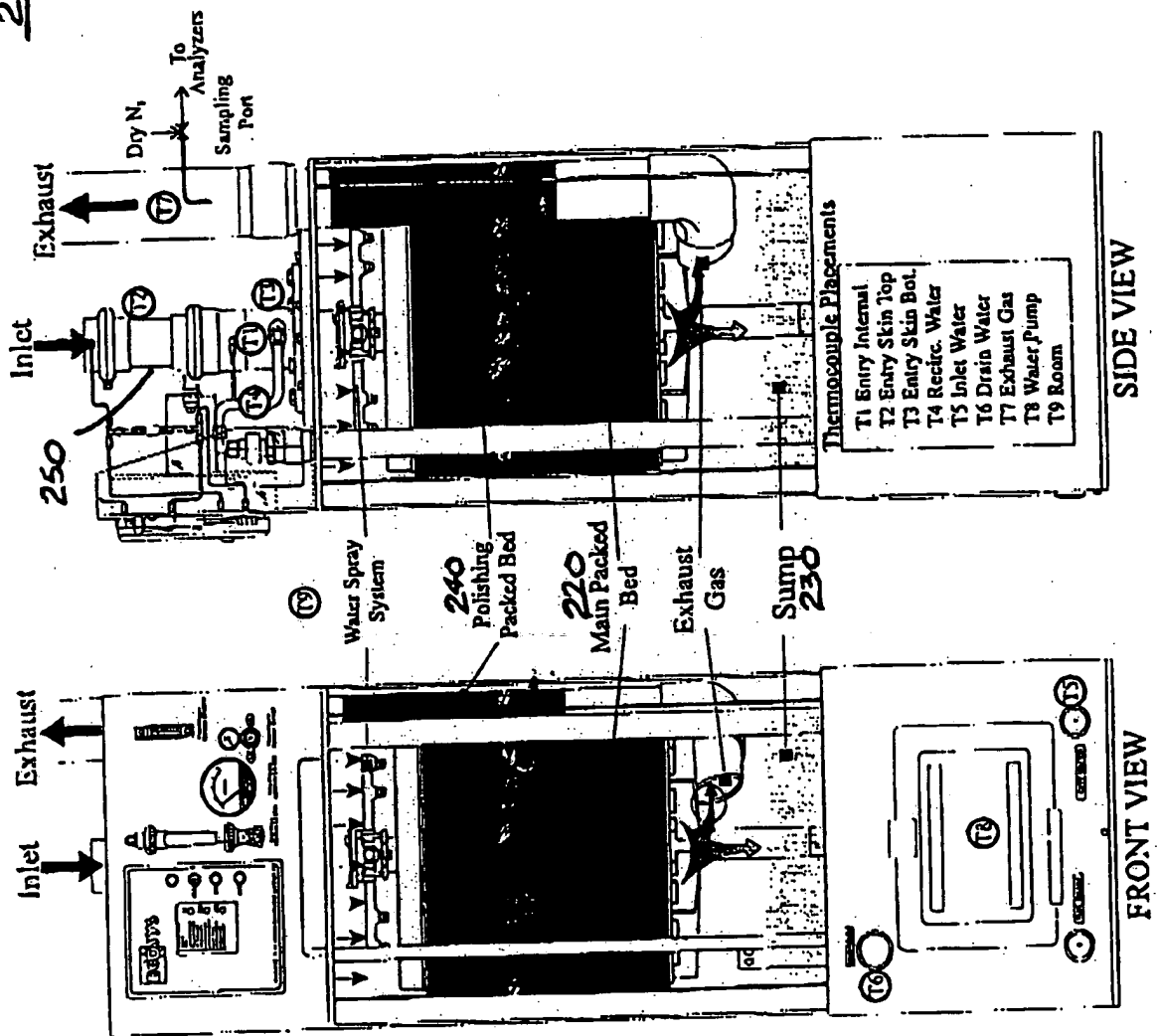


Figure 3. Effect of water use on fluorine abatement efficiency as a function of initial  $F_2$  concentration.

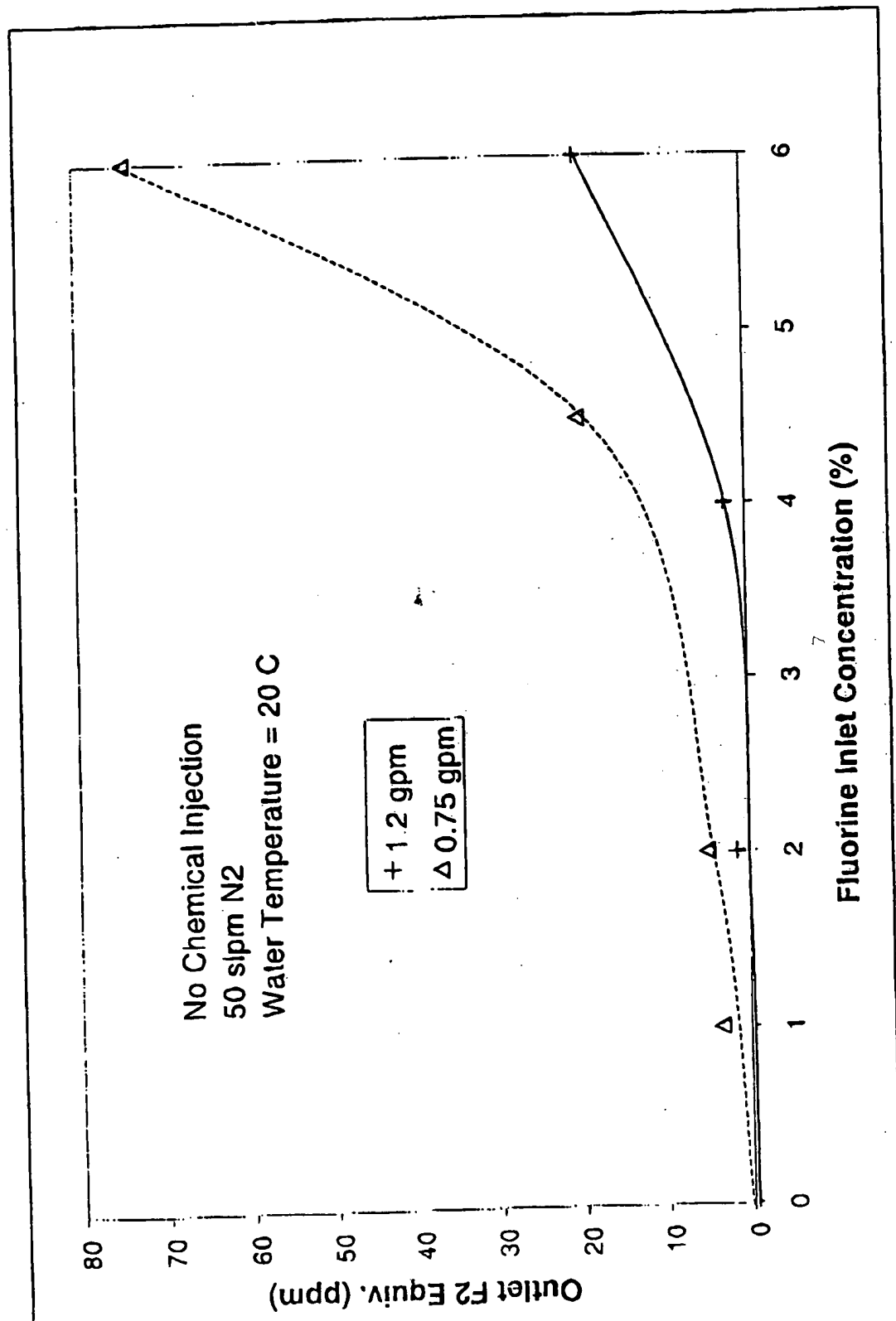


Fig. 4

Time dependent concentration profiles of selected compounds measured at the outlet of the scrubber (Test 4, Table 2.

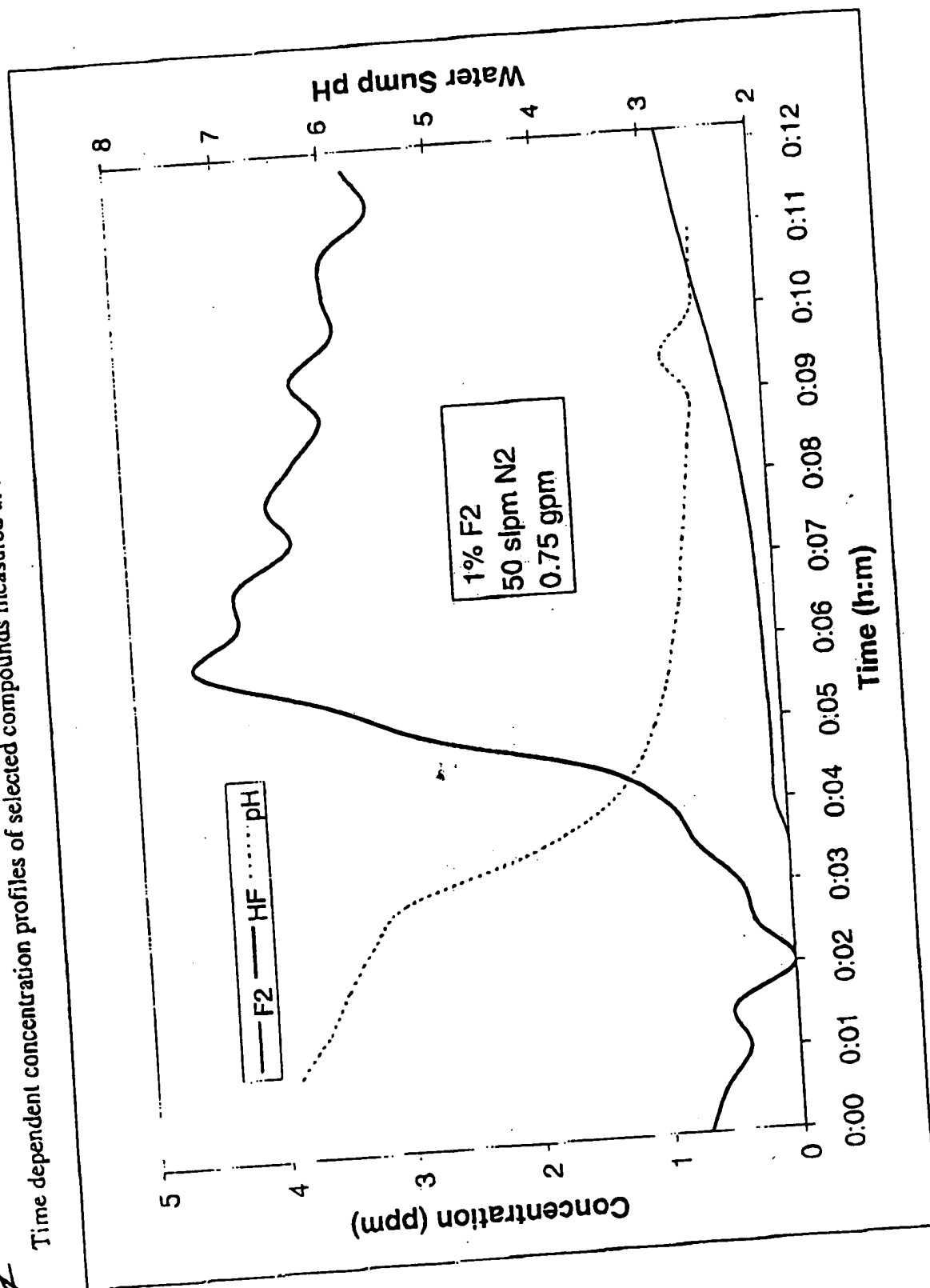
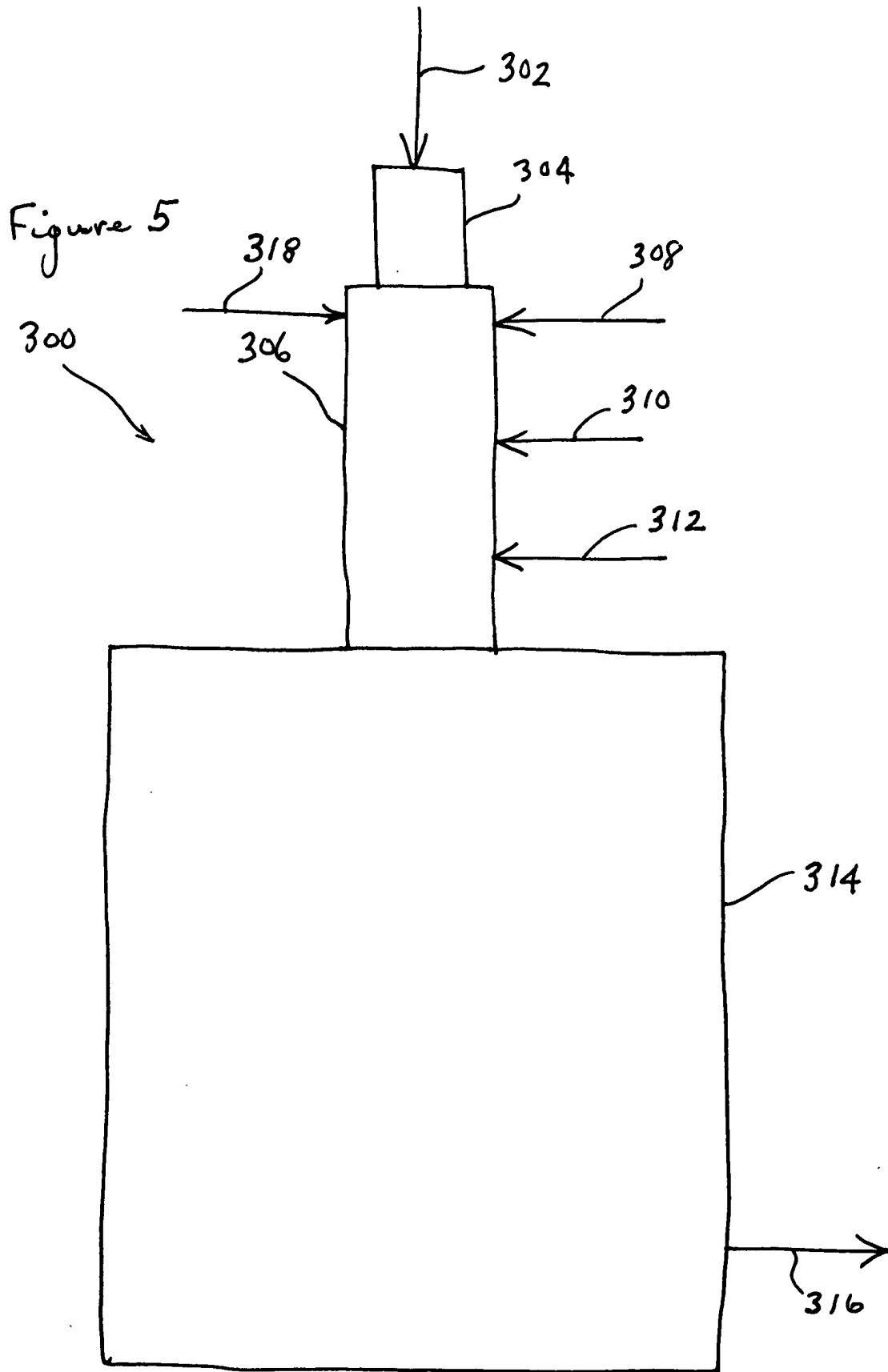


Figure 5



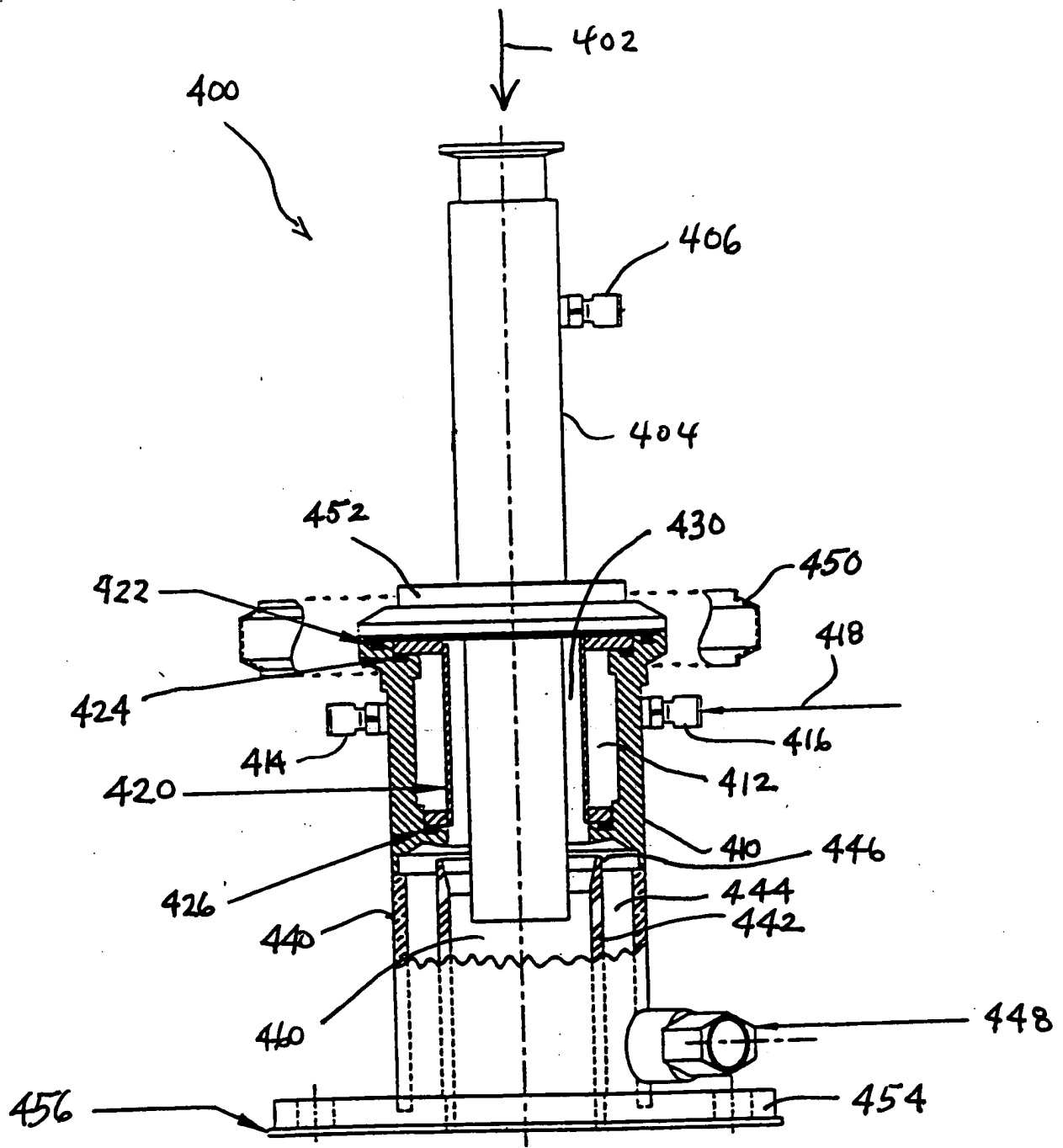


Figure 6

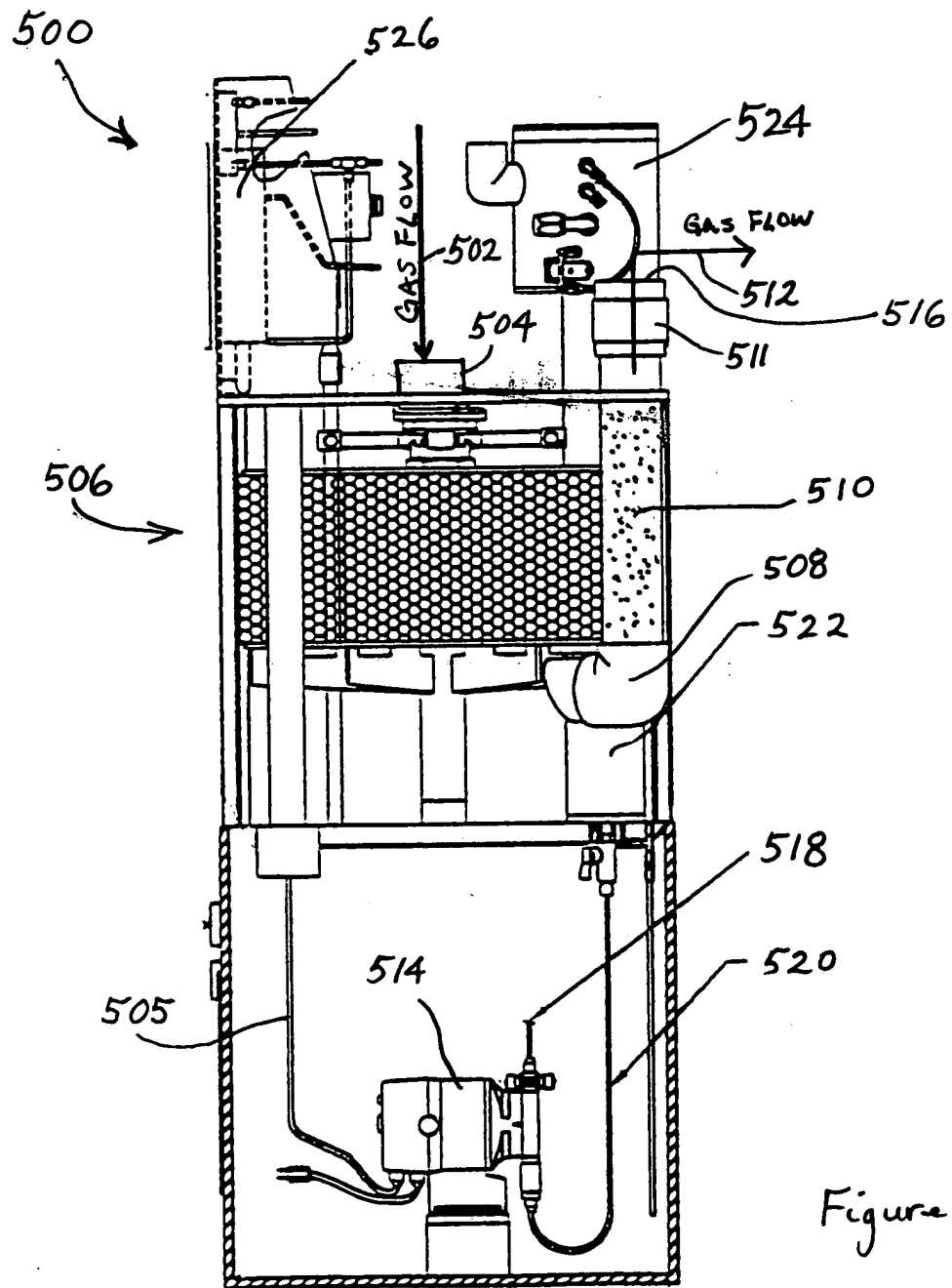


Figure 7

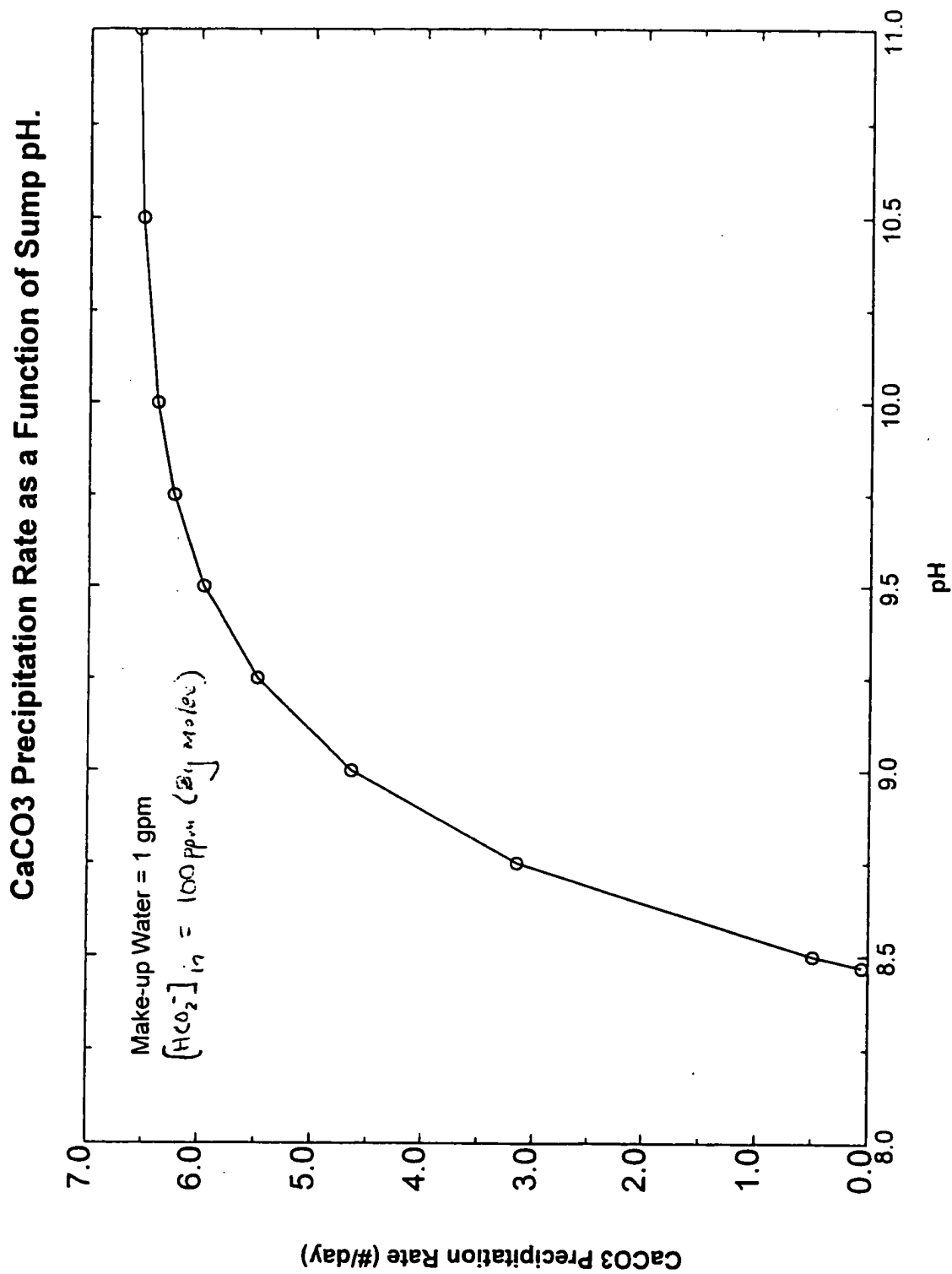
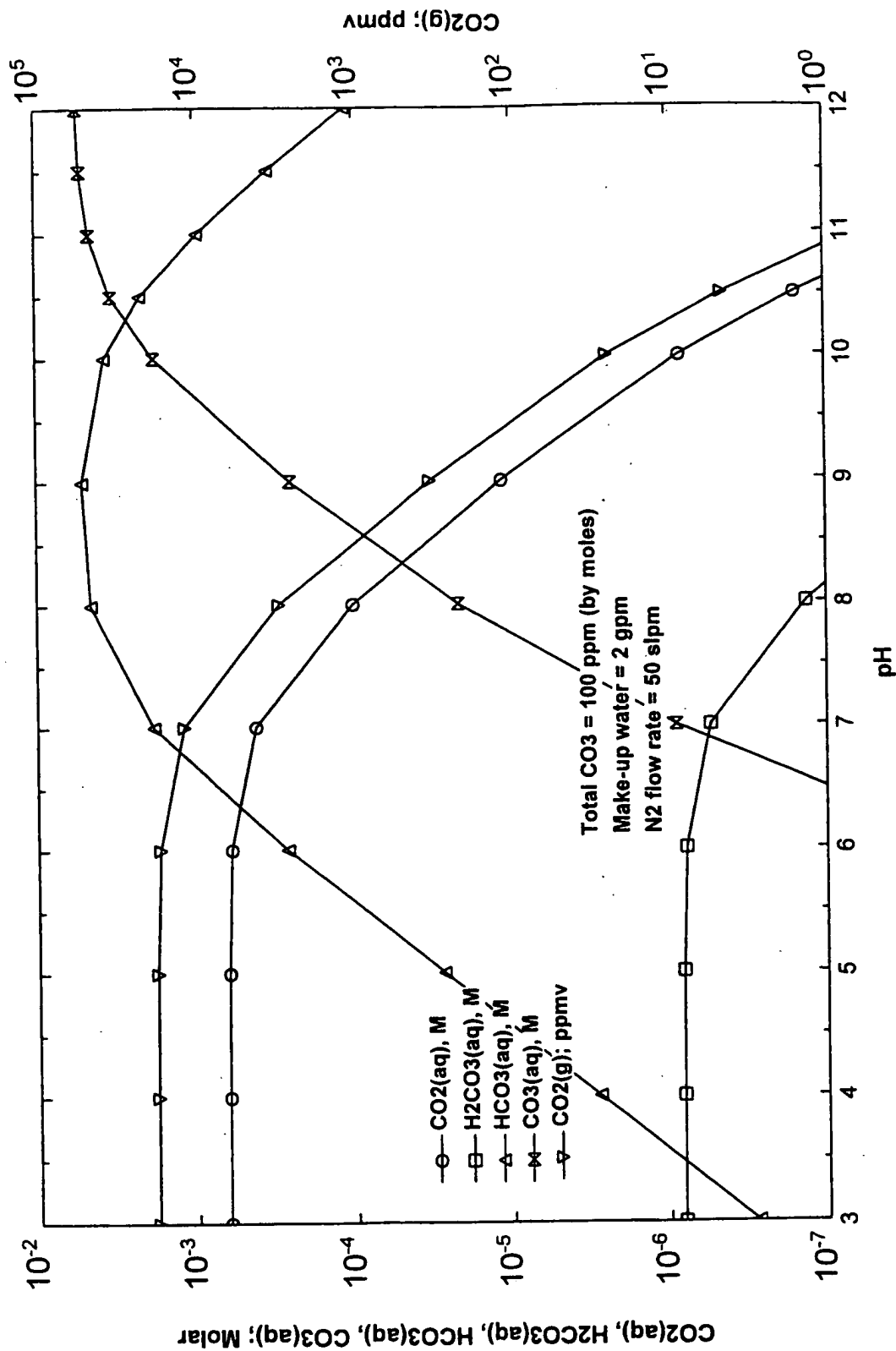


Figure 8



Figure 9

Concentration of Carbonic Acid and Derivatives in Vector Sump.



# Bed Improvements

Improvement Factors (Bed/NoBed)

Improvement Factor (Decrease in  $\text{NH}_3$  exhaust concentration when polishing scrubber is present)

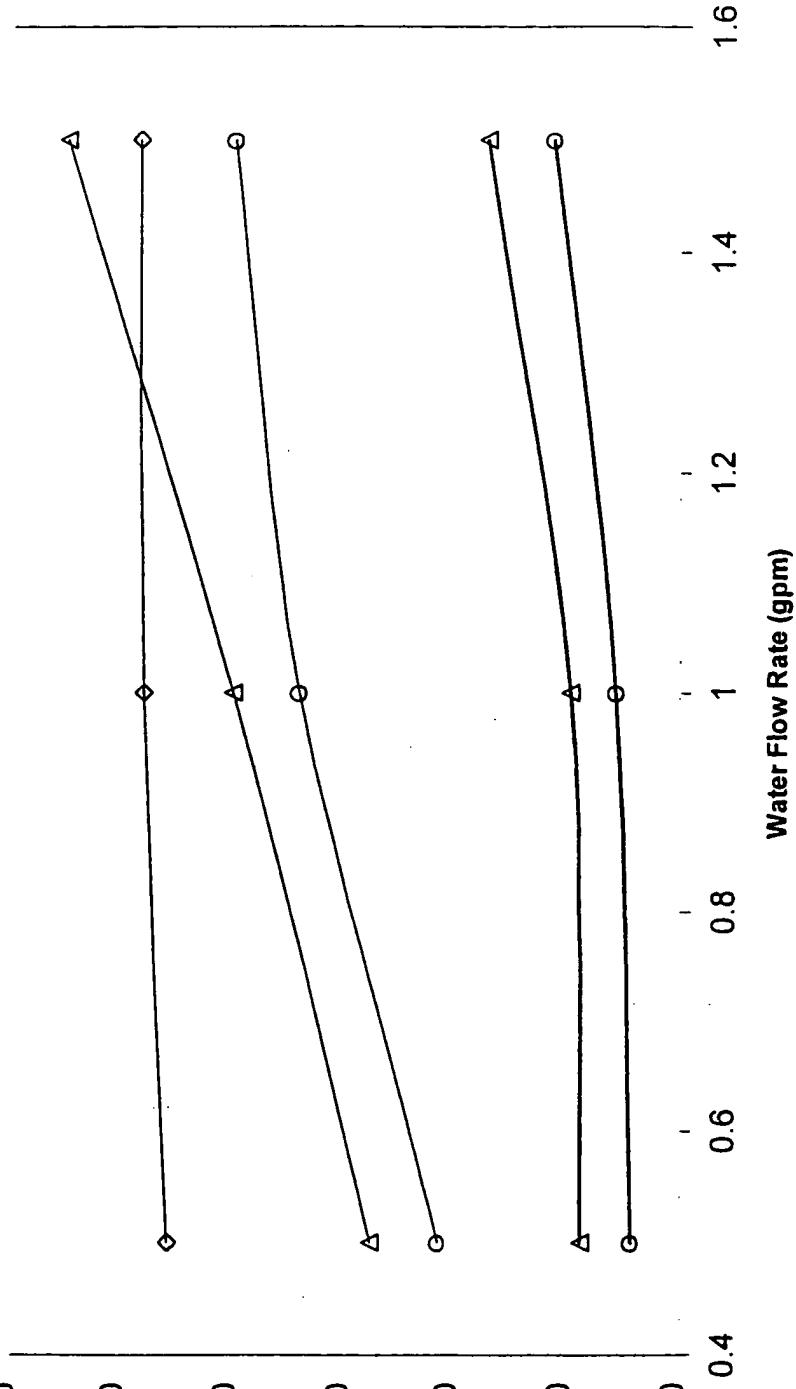


Figure 10

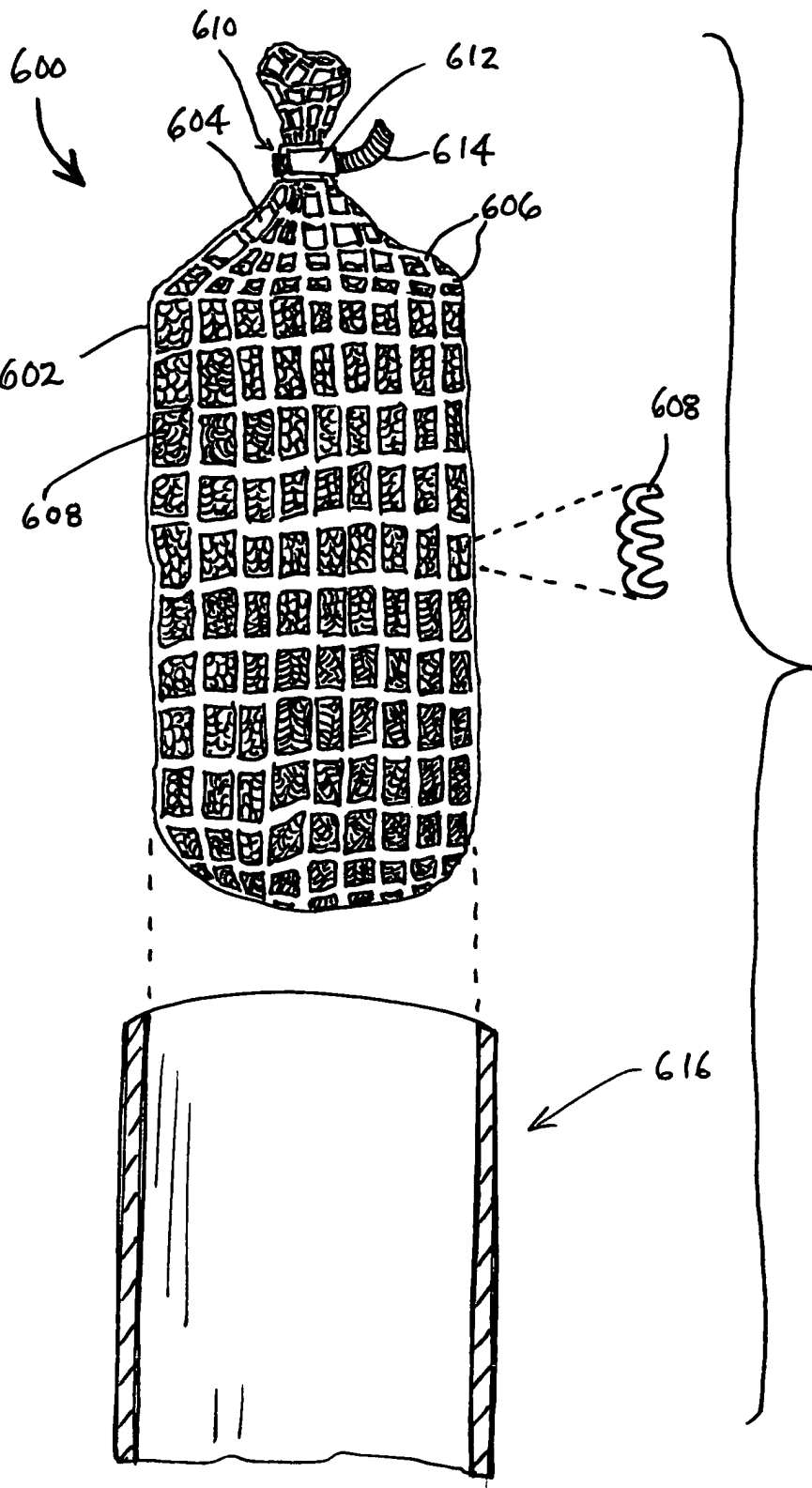


Figure 11

Figure 12

